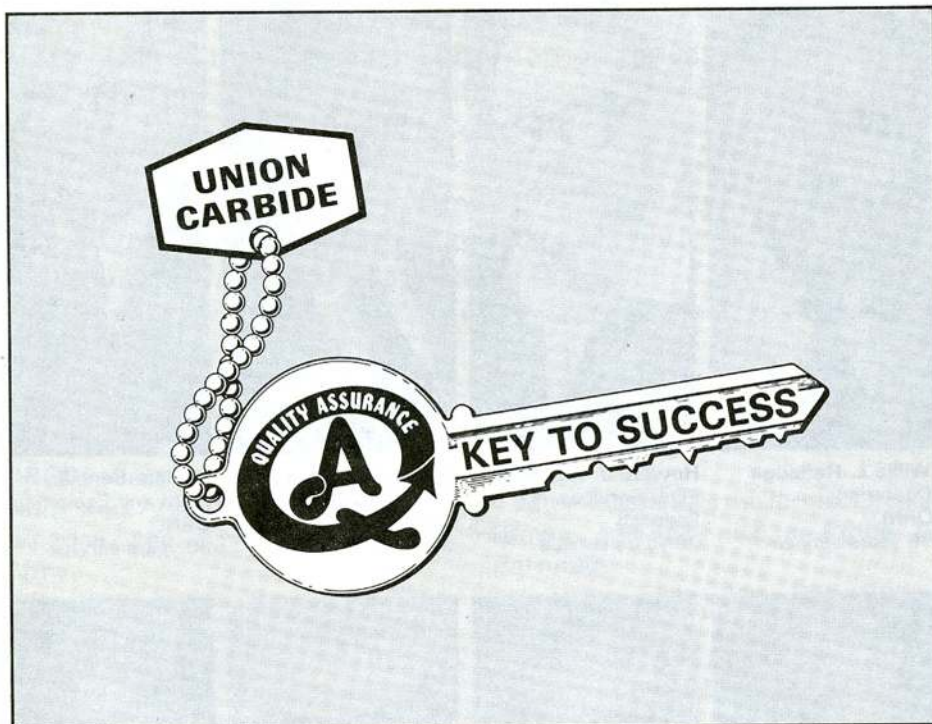


Quality Assurance stresses quality, attitudes and acceptance



Nuclear Division facilities in Oak Ridge and Paducah will observe March 22-28 as "Quality Assurance Week." Activities planned will coincide with similar observances throughout Tennessee, Kentucky and five other area states.

The purpose of Quality Assurance (QA) Week is to emphasize the importance of quality, quality attitudes, and the acceptance of individual responsibility for achieving quality work.

This year's slogan, "QA — Key to Success," implies that the proper use of quality assurance will give employees additional confidence in attaining objectives and achieving overall success.

(A series of articles describing the objectives and benefits of QA will

appear in subsequent issues of *Nuclear Division News*.)

During the week-long observance, QA coordinators in the various divisions and departments will hold meetings to help promote QA and develop positive quality assurance attitudes. A special videotape on QA has been produced for showing at these meetings.

Also, as part of the QA Week observance, employees may participate in a QA message contest designed to increase their awareness of quality assurance and its value in achieving Nuclear Division objectives. Contributor of the best message from each facility will receive an award, and a grand prize winner will be selected from among the four. Contest rules and prizes will be announced later.

UNION
CARBIDE

Nuclear Division News

● Vol. 12, No. 2 January 29, 1981

Annual WATtec Conference

To register contact:

Gail Smith
WATtec Registrar
Lockheed Corporation
Oak Ridge Engineering Center
telephone: 482-6200

Registration: \$75

Gordon G. Fee, general chairman

State of Lab address scheduled Tuesday, February 3

Director Herman Postma will present the annual state of the Laboratory address at 8 p.m. Tuesday, February 3 in the auditorium of the American Museum of Science and Energy. Immediately preceding the address, a multi-media slide show, Images of ORNL, developed by the Information Division's Photography Department, will be presented at 7:30 in the museum auditorium.

Nuclear Division staff members, their families and friends are cordially invited to attend the slide show, talk and social hour. Refreshments will be served following the presentations.

Employee Relations reassigns persons at Laboratory

The reassignment of several employees in ORNL's Employee Relations has been announced by Division Director Joe J. Vogt.

Barbara G. Ashdown has joined the Division staff as ORNL affirmative action coordinator. (See Page 8) Lynda R. Lewis, who has served as AA coordinator since 1977, will be responsible for operating the administrative support and Job Opportunity System (JOS) programs in the Employment Department.

Jane L. Patterson, who most recently was in charge of these programs, will be working with the Division's University Relations program and the Training and Development Department.

C. Elmo Wolfe will assume new responsibilities as pre-retirement program administrator in the Personnel Relations Department. John Murphy, of the Training and Development Department, succeeds Wolfe as head of non-technical employment.

Vogt said that all of the assignments are in accordance with the Division's objective of developing and broadening the skills and experience of the professional staff.

In this issue . . .

Trophies on top of trophies pile up for the Carbide Blue Pistol Team and other sharpshooters in the four Nuclear Division Plants. See pages 4 and 5.

Other features in this issue:

Y-12 promotions page 3
Question Box page 5
News about people page 7
Dr. Lincoln page 8



PLAN OFFICE BUILDING — Representatives of the Nuclear Division and MPM Development Corporation of Knoxville look over a five-year lease contract for a 22,400-square-foot office building that will house DOE's Fusion Engineering Design Center, ORNL employees and other related fusion program personnel. The building, to be located in the Oak Ridge Valley Industrial Park, will be constructed and owned by MPM Development. It will provide office space for 100 scientific, engineering, technical and clerical personnel and is scheduled to be ready for occupancy sometime in August. Shown above at the contract signing are, from left, Shannon E. Bridges, Purchasing Division; J. Michael Parish, A. C. Massengill Jr. and J. Patrick McDonnell, all of MPM Development; Victor C. Kruzic, ORNL Fusion Energy Division; and J. Buford Clendenen and Kluck U. Berkau, both of Purchasing.

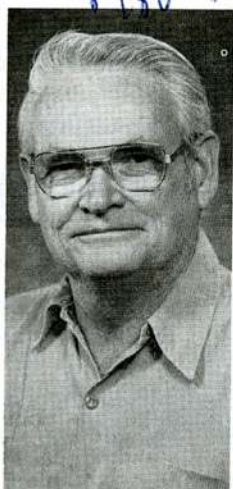
Recent Retirements



Roy C. Holt
Plant and Equipment
ORNL
37 years service



Martin E. Ball
Plant and Equipment
ORNL
30 years service



Ernest R. Clifford
Plant and Equipment
ORNL
26 years service



Hemma E. Comolander
Engineering Physics
ORNL
35 years service



Willie L. Ratledge
Operations
ORNL
36 years service



Howard J. Rendleman
Plant Services
Paducah
28 years service



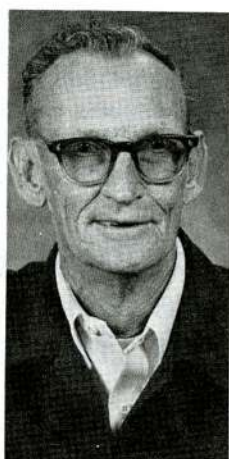
Samuel A. Reynolds
Analytical Chemistry
ORNL
36 years service



William Sewell
Plant and Equipment
ORNL
30 years service



Walter C. Williams
Plant and Equipment
ORNL
29 years service



Frank Violet
Plant and Equipment
ORNL
30 years service



Homer G. Baker
Plant and Equipment
ORNL
28 years service



Floyd H. Watson
Finance and
Materials
ORNL
28 years service



Frank Bayless
Plant and Equipment
ORNL
33 years service



Willie C. Schuiten
Operations
ORNL
37 years service



Harry B. Johnston
Cascade Operations
Paducah
28 years service



Earnest G. Deaderick
Plant and Equipment
ORNL
30 years service

Safety Scoreboard

Time worked without a lost-time accident through January 8:

Y-12 Plant	122 Days	4,094,000 Employee-Hours
ORGDP	125 Days	3,678,917 Employee-Hours
ORNL	256 Days	5,911,429 Employee-Hours
Paducah	177 Days	1,638,000 Employee-Hours

Patents

Charles E. Dial, Y-12 Plant, for "An Improved Tool Holder."

James R. DeMonbrun, Charles R. Schmitt and James M. Schreyer, all of the Y-12 Plant, for "Method for Inhibiting Corrosion in Aqueous Systems."



Mildred W. Landay
Engineering Physics
ORNL
14 years service



Owen E. Duncan
Operations
ORGDP
23 years service



PADUCAH OLDTIMERS — Members of Paducah's Power, Utilities and Chemicals Division with 25 years or more of company service gathered recently to share current events and past memories. Representing over 500 years of service more than 20 attended of the 50 eligible employees. From left are Curtis Yarbrough, Ron Terrell, Charlie Collier, E. L. Cherry, H. L. Day, Herb Wicker, Bill Childress, W. A. Vanvactor, R. C. Ward, George Chapman, F. P. Smith, Bill Welch, Dan Garrott, Bob Elliott, Harry Goode, Ray Brust, L. C. Cunningham, Charlie Borden, Pete Bloomfield and Ace Wallace.

Recent Anniversaries

Y-12 PLANT

35 YEARS

Dillard D. Spangler, Maintenance Division; and Willie S. Arnold, Electrical and Electronics.

30 YEARS

Charles H. Oaks, Guard Department; Roy F. Phillips, Chemical Services; Paul E. Trent, Development Division; Robert S. Chambers, Process Maintenance; Charles G. Treece, Electrical and Electronics; and Calvin A. Proffitt, Special Services.

25 YEARS

James H. Jones.

Additional promotions at Y-12

Eleven additional promotions are announced at the Y-12 Plant: William E. Black has been promoted to a supervisor in Metal Preparation; Michael E. Burnett an industrial Hygiene technician in Employee Relations; Elbert K. "Bud" Cochran a process supervisor; Turley M. Copeland a machining supervisor; Charles H. Fritts a process supervisor; Larry G. Kauffman a supervisor in Fabrication; James L. McCreary an inspection supervisor; Elroy Plemens a supervisor in Fabrication; Robert A. Robinette a materials dispatcher; Thomas C. Surratt a utilities supervisor; and Peggy R. Tiller has been named a materials dispatcher.

Black, a native of Greenback, joined Union Carbide in 1976 at ORGDP. Prior to that time, he worked with the Aluminum Company of America, and served in the U. S. Army.

He and his wife, the former Faye Johnson, live at Route 3, Lenior City. They have five children, Tony, Ricky, Vanessa, Stephanie and Susan.

Burnett was born in Knoxville and attended Walters State Community College before joining Union Carbide in 1978 at ORGDP. He worked with Sevier County Electric Company, Southern Athletic and Allied Chemical Corporation.

Mrs. Burnett is the former Barbara Rowland, and the couple lives at Route 6, Colonial Circle, Seymour. They have a son, Greg.

Cochran was born in Harriman and lives there now at Route 5. He joined Union Carbide in 1952 after working in the Roane Hosiery Mill.

Cochran and his wife, the former Maxine Honeycutt, have a son, Steve.

Copeland is a native of Overton County and joined Union Carbide in

1962 after working at General Motors and serving in the U. S. Air Force.

Mrs. Copeland is the former Lucille Brown, and they live at Route 1, Harriman.

Fritts a native of Oak Ridge, attended Roane State Community College and has a BA degree from the University of Tennessee. He joined Union Carbide in 1978 after working at Krystal Restaurant.

Mrs. Fritts is the former Deborah Ann McNew, and they live at Route 2, Powell.

Kauffman was born in Arcanum, Ohio. He joined Union Carbide in 1979 after working with National Cash Register Company and Tennessee Tool and Engineering.

He and his wife, the former Barbara Garbig, live at Route 3, Clinton. They have a daughter, Angela.

McCreary is a native of LaFollette and has attended the University of Tennessee. He joined Union Carbide in 1970 at Y-12, transferring to ORGDP in 1973, then back to Y-12 in 1975.

He was an instructor in a machine shop for Allis-Chalmers prior to that time. McCreary lives at 206 Elm Street, LaFollette.

Plemens was born in Harriman and joined Union Carbide in 1950 after working with Chrysler Corporation. He served in the U. S. Army two years. He lives at Route 6, Harriman, and has two sons, Wesley and John.

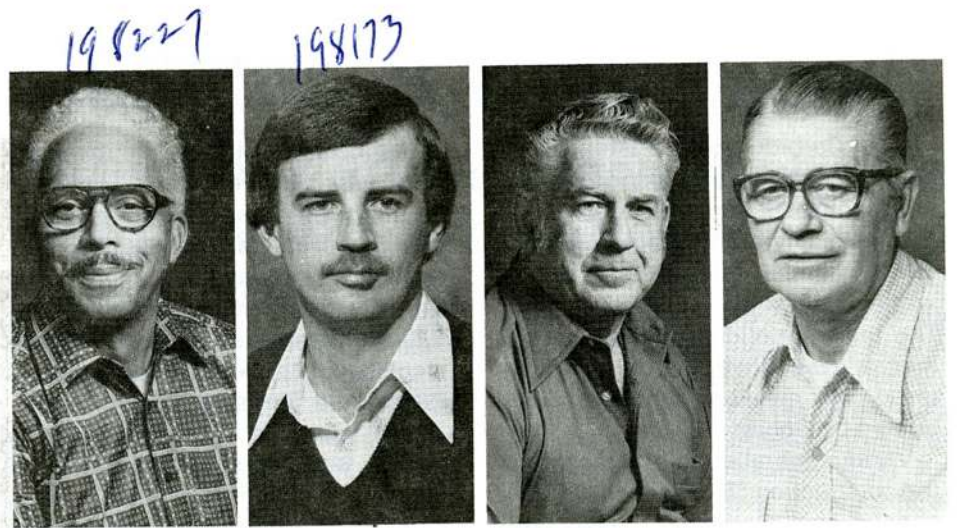
Robinette is a native of Roane County and worked with Chrysler Corporation before joining Union Carbide in 1953. He also served two years in the U. S. Army.

Theater party set for ORGDPers

A dinner party and evening at the theater is being planned for ORGDP employees and their families at the West Side Dinner Theater. It is set for Friday and Saturday, February 27, 28. The tickets are \$12.50 per person, and include a buffet, a play, "There Goes the Bride," and dancing afterwards.

The buffet begins at 6:30, the play at 8:30.

There is a limited number of tickets for both evenings and reservations should be made immediately. Call Mary Frances Tolliver, plant phone 4-8798. Retirees may call Virginia Donahoe, telephone 576-1786.



Black

Burnett

Cochran

Copeland

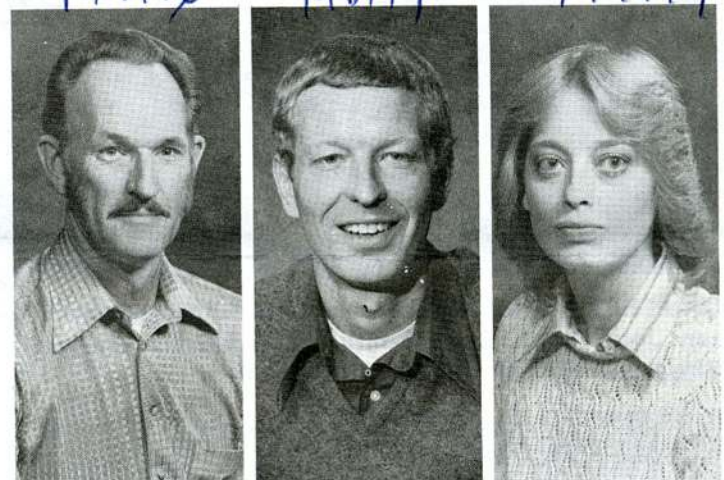


Fritts

Kauffman

McCreary

Plemens



Robinette

Surratt

Tiller

Mrs. Robinette is the former Bobbie Wright, and they live at Route 2, Kingston. They have two children, Rick and Julie.

Surratt joined Union Carbide in 1976 after attending North Virginia Community College, and working with Georgetown University Hospital and Walker and Dunlap Property Management. He served in the U. S. Navy for four years.

Mrs. Surratt is the former Mary Kirby, and the couple lives at 10540 Blakewood Drive, Knoxville. They have a daughter, Donna.

Tiller is a native of LaFollette and attended Tennessee Technological University. She joined Union Carbide in 1979 after working with Highway Transport, Inc. and Mid-South Refrigerated Warehouse.

She lives at 200 Elmhurst Drive, Oak Ridge.



Thorne

Carroll R. Thorne has been appointed a fire and guard lieutenant in ORGDP's Plant Protection Division. A native of Crossville, he joined Union Carbide in 1979 after serving in the U. S. Marine Corps. He attended Columbia State Community College and has a BS in criminal justice administration from Middle Tennessee State University.

He is a captain in the U. S. Marine Reserve and lives at 109 Redbud Drive, Clinton.

UNION
CARBIDE

Nuclear Division News

UNION CARBIDE CORPORATION
NUCLEAR DIVISION
Post Office Box Y
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PADUCAH

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INTERNATIONAL ASSOCIATION OF BUSINESS COMMUNICATORS

Carbide Blue Pistol Team ends outstanding year

The Carbide Blue Pistol Team, composed of security inspectors and guard officers from all four of the Nuclear Division Plants, closed 1980's combat revolver competition with outstanding accomplishments. The team functions under a marksmanship incentive program administered by division managers and guided by Robert G. Affel.

Various members of the team hold the distinction of Master, Sharpshooter and Marksman Firers. Others are recipients of the Tennessee Governor's Top 20 Shooters, an award given annually, honoring the top 20 combat revolver shooters throughout the state. Extreme competition marks this competitive firing.

The Carbide Blue Team, involving its expert revolver firers, competed with other marksmen from the Tennessee Bureau of Investigation, Tennessee Highway Patrol, County Sheriff Departments, Tennessee Wildlife Resources Agency and various city police departments throughout the state.

Each year the four Union Carbide plants and other Department of Energy organizations challenge each other for the reputation of being the plant with the top firers. This distinction was captured this past year by the Y-12 inspectors. Also, the team's involvement in various local monthly competitive matches throughout the year keeps the enthusiasm high with

the desire to get on the Blue Team.

The competition achieves a high state of readiness and proficiency which directly relates to their daily work criteria of the guard forces. Members of the Blue Team are allowed time off periodically to compete in these firings.

Last year, the Carbide Blue Team participated in competitive matches in Nashville, Memphis, Jackson, Miss., and Idaho Falls, Idaho, as well as six matches in Oak Ridge and six in Knoxville.

The team closed the 1980 season with the national competition match in Idaho. ORGDP members secured the second place team trophy and had two marksmen in the individual matches. Lieutenant Harry Williams

and Security Inspector Doug Nelson fired 565 and 575, respectively out of a possible 600 score.

The Paducah Plant Carbide Blue Pistol Team began competitive firing in 1980. The team shot in several matches throughout Kentucky as well as matches in surrounding states. Competition found them in Oak Ridge, Nashville, Jackson, Miss., Paducah, Russellville and Hopkinsville, Ky., and Granite City, Ill. They closed the 1980 season with the National Police Revolver Championship in Mississippi. Lieutenant John Smith took a second place trophy in match five of the competition.

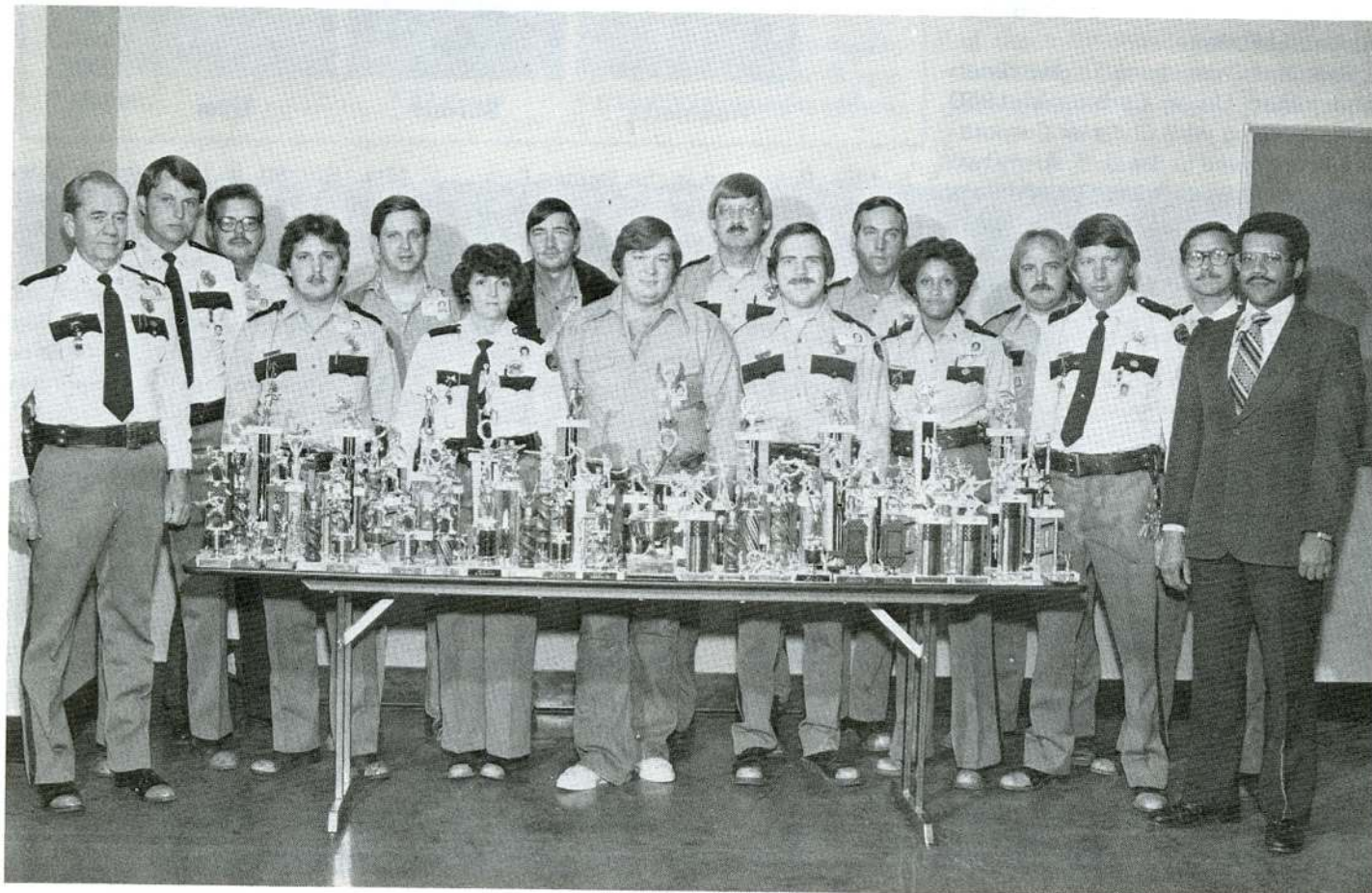
1980...a great year for the Carbide Blue members, with 1981 even more promising.



PADUCAH TEAM — From left are members of the Paducah Blue team: Lieutenant John Smith, Steve Smith, Theresa Grace, Steven Lynn and Marion Hosick. Tom Norment is not shown.



ORNL PISTOLEERS — Members of the Blue team from ORNL have gleaned 27 trophies, assorted ribbons and certificates won by Larry D. Jackson, from left, Scott Trotter, Jim Bridges, Gerald C. Johnson and George W. Parker.



Y-12 FIRING LINE — Ace pistol firers from Y-12 stand before their 'thousand' trophies won in matches throughout the state and nation. From left are Chief James H. Shoemaker, Lieutenant W. Stephen Trotter, Robert A. Quinn, Randall E. Jones, Ray V. Hanby, Lieutenant Joan Murphy, Gary L. Miller, J. Patrick Davis, C. Ralph Clough, David R. Campbell, Junior L. Davis, Patricia B. McGaughey, Wayne D. Pierce, James M. Wampler, Lieutenant Everett Strange, and George M. Cobham, superintendent of the Fire and Guard and Fire Prevention Engineering Departments.

Division Death



Mr. Judd

Jack B. Judd, a training instructor in ORGDP's Maintenance Division, died January 21. A native of Putnam County, he attended the University of Tennessee and Roane State Community College.

A veteran of the U. S. Navy, Mr. Judd served in the U. S. Navy and worked with Motorola before joining Union Carbide in 1951.

He is survived by his wife, Mary Leonard Judd, 102 Manchester Road, Kingston; son, Dennis; daughters, Shelia Dziubak, Jackie Gregory and Sherri Ferguson; sisters, Ermine Matheny, Emogene Brown and Rose Judd.

Funeral services were held at the Kingston United Methodist Church.



ANNUAL PARTICIPANTS FROM ORGDP — From left are Clint H. Simmons, Captain Robert D. Allen, Jerry Sams, Michael E. Wall and Lieutenant Harry L. Williams.



TROPHY WINNERS — The winning team at Idaho Falls from ORGDP includes, from left, Larry D. Jackson, Scott Trotter, Jim Bridges, Gerald C. Johnson and George W. Parker.

Save Energy / Share the Ride

Y-12 PLANT

Two VAN POOL MEMBERS from Lenior City to all portals, 8 a.m. to 4:30 p.m. Jimmy Keeble, plant phone 4-0245, home Lenior City 986-2470.

BUS POOL forming from Rockwood, Midtown and Kingston to any portal, 8-4:30 shift. Tommy Roberts, plant phone 4-0887, home phone Rockwood 354-2789.

ORNL

VAN POOL RIDER from West Knoxville, Walker Springs, Cedar Bluff, Cedar Springs Shopping area, via Lovell Road, to South or West Portal, straight day. Mike Caldwell, plant phone 4-4885, home phone Knoxville 691-4194.

RIDER from Emory Valley — Emory Heights, straight day. Gerry John-

son, plant phone 4-4379, home phone Oak Ridge 483-0262.

RIDE NEEDED from Oak Ridge Highway between Karns and Solway to East Portal, 8:15-4:45. Peterson, plant phone 4-4483; home phone 690-3989.

ORGDP

BUS SERVICE from Rockwood, Kingston and Midtown to all portals, straight day. Plant phone 6-0204, home phone Harriman 882-5618.

CAR POOL MEMBERS from Riverbend Estates area, Kingston, to Portals 1 and 2, straight day. Larry Jones, plant phone 6-1919.

VAN POOL RIDERS from Concord area, Knoxville to Portals 1 and 2, straight day. Linda Ailor, plant phone 4-8814, home phone 966-3706.

Question Box

Why do Medical clerical people get clothing allowances?

QUESTION: Why are clerical personnel in Y-12's Medical Department given a clothing allowance? Do these people at ORNL and ORGDP get this allowance? Why isn't it given to other clerical personnel?

ANSWER: Y-12 Medical Department employees are not getting a clothing allowance. Some employees at ORNL and Y-12 who are assigned clerical duties but who work interrelatedly with nurses and medical technicians are provided uniforms. The work arrangements at ORGDP are such that no employees whose duties are primarily clerical are supplied with uniforms.

The determining factor in providing work uniforms is not the employee's job title; more properly, it is the work to which the employee is assigned. Uniforms have been traditionally provided to Medical Department personnel directly involved in health service activities.

QUESTION: Many people use the entrance roads to the East Portal at Y-12 merely to avoid the traffic light at the intersection of Bear Creek and Scarboro Roads. Couldn't this area be posted to emphasize that the entrances are not a thoroughfare? Right now a real safety hazard exists.

ANSWER: The East Portal access road intersecting both Bear Creek and Scarboro Roads, although not intended to be used as a thoroughfare to avoid the traffic light, must remain an open road to provide portal access for a variety of users. This road is used by many carpools and vanpools who pick up and discharge passengers at the East Portal. It also serves as the principal access for service, delivery, and contractor personnel and equipment.

Your observation that a safety hazard exists has been called to the attention of the Department of Energy Security Patrol, which is responsible for traffic safety outside plant perimeters.

Anniversaries

ORNL

35 YEARS

Frank S. Brinkley, Environmental Sciences; Alonzo Tabor, Plant and Equipment; Ralph L. Clark, Plant and Equipment; Francis K. McGowan, Physics; Paul W. Hill, Instrumentation and Controls.

30 YEARS

Frank H. Ward, Plant and Equipment; Vivian J. Zedler, Instrumentation and Controls; C. Elmo Wolfe, Employee Relations; Charles W. Boatman, Chemical Technology; William H. Taylor, Employee Relations; Edgar J. Vittatoe, Plant and Equipment; William J. Bryan, Chemical Technology; David A. McWhirter, Chemical Technology; Boyd S. Lynch, Finance and Materials; Thomas R. Steele, Operations; Thomas J. Sworski, Chemistry; Reuben G. Carver, Plant and Equipment; Thomas W. Hodge Jr., Chemical Technology; Robert J. Shannon, Chemical Technology; William A. Shannon, Chemical Technology; Charles E. Waddell Jr., Chemical Technology; Charles E. Hall, Plant and Equipment; Dailard H. Loveday, Plant and Equipment; William E. Busby, Solid State; Charles B. Burns, Plant and Equipment; Vernon J. Houser, Finance and Materials; Raymond D. Johnston, Operations.

25 YEARS

Woodrow Carey, Robert L. Jolley, Donald T. Henderson, Hisashi Kubota, George C. Battle Jr., Eric C. Bradley, Eugene S. Vaughn, Leonard D. Liles, Elmer H. Lee, Howard A. McLain, Larry G. Shrader.

20 YEARS

Sandra S. Beidel, William T. Martin.

Y-12 PLANT

35 YEARS

Kate P. Amos, Computer Sciences; William A. Freels Jr., Plant Laboratory; Edwin F. Gammon, Planning and Systems Support; Delmas L. Glovier, Electrical and Electronics; Hugh C. Nichols, Chemical Services; Carl K. Poland, Special Services; and William Garland, Plant Laboratory.

30 YEARS

Bettie D. Martin, Computer Sciences; Hilton A. Tunnell, Development Division; Ebenezer B. Oglesby, General Machine Shops; Wayne J. Johnson, Process Maintenance; James H. Billingsley, A Wing Shop; Robert L. Fain, Guard Department; Orville M. Freels, Dimensional Inspection; Laroy S. Nabors, Alpha Five West Shop; Charles E. Davis, Dimensional Inspection; Chester A. Franklin, General Machine Shops; Clifford W. Anderson, Accounting and Budget; Mattie B. Humphrey, Plant Laboratory; Basil E. Ward, Tool Grinding; and Floyd McClure, Material Transfer and Packing.

20 YEARS

Hubert B. Presley.



ODD COUPLE — J. R. Champion, a supervisor in Paducah's Process Maintenance Department, discovered an odd combination growing in his azaleas a few months ago. A large striped watermelon and a tasty tomato vine unexplainedly appeared at his doorstep in early summer and healthily thrived to maturity despite the unfamiliar environment and uncultivated origin. "A bird of some sort is the only transportation I can imagine for these seeds," Champion said. (With the new seed catalogues arriving, he looks again for strange azalea seed.)

Around the alleys...

K-25 Wednesday...

The Sue Sooners grab a lead in the second half of the K-25 Wednesday Men's League. Lou Finley rolled a 690 handicap series, as Clyde Bolen put a 249 single game up there. The Amps posted a high series of 3161, and a high single of 1099.

K-25 Tuesday...

The Atoms still have a slight lead in the K-25 Tuesday League, rolling above the Mishaps. The All Stars still hold a season high, 3107 handicap series; 1110 single in handicap scoring also. J. H. Peer, All Stars, was high bowler recently, rolling a 220 scratch game, 588 scratch series. W. S. Lenihan, Atoms, was high handicap bowler, 255 single; 667 handicap.

ORGDP Women's...

The Pinups hold a slight lead in the new season as the ORGDP Women's League opens second half play. Vickie Houston was bowler of the week recently rolling games of 215+196+250 for a total of 661. Georgia Guinn rolled high scratch honors, single of 216; series of 572.

Y-12 Classic...

The Playboys grabbed an early lead in the Y-12 Classic League, rolling a 3039 score in handicap series postings. Tom Pappas rolled a 707 handicap series; and Glenn Kindred put a 278 single handicap game up on the boards. Apollo Five posted a 1091 handicap single.

Y-12 C League...

The Favorite Five started off the new season by blasting the Fizziles for the full count. The C League also announced top prizes for the first half: The Sunflowers took the most points...40, also taking top team position. Jay Leatherwood took top single game, 283 handicap...with Jack Spears rolling the highest series, 741 handicap.

Family Mixed...

The Oops team, Edith Duckworth, R. Amos, Tilly Plaza and Sewell Brown, took top honors in the UCC Family Mixed League, downing the Gutter Buddies by five good points. High handicap series honors went to Willard Hubbard, 685; Ruth Hardin, 683; single games to Walter Muenzer, 268 and Don Carpenter with the same score; to Nelline Ross, 278.

ORNL A...

ORAU continues to dominate the ORNL A League, leading four above the Woodchoppers. Weekly highs went to the Ten Pins recently, as they rolled a 2932 scratch series.

ORNL C...

The Cellar Dwellers are a five-point leader in the ORNL C League, above the Alley Rads and Timberwolves. The Engineers posted a high handicap series of 3026 recently, as Harold Abee, Cellar Dwellers, rolled a 663 series.

Volleyball Leagues...

Late January finds competition still keen in the three Volleyball Leagues.

Standings follow:

CARBON LEAGUE - NORTH DIVISION

Team	Won	Lost
Net Profits	31	2
Environmental Disasters	28	5
Lucky Spikes	30	9
Prime Time Players	27	9
The Spikers	22	14
Condensed Matter	17	13
The Zoo Crew	19	17
Carriers	17	16
Wild Turkeys	18	21
High Ballers	14	19
Net Heads	12	24
Zodiacs	12	27
"Tapeworms"	10	23
Sluggers	10	26
Bio Rejects	9	29
Thumpers	7	29

CARBON LEAGUE - SOUTH DIVISION

Team	Won	Lost
P.O.I.	26	4
Foul Plays	25	8
Killer Bees	24	9
Buccaneers	24	9
Cornered Rats	23	13
Manipulators	20	13
W.G.A.S.	18	12
The Gamblers	18	12
Odds & Ends	15	18
The Horibas	14	19
Mustangs	12	21
Bombers	12	21
Short Circuits	12	21
Leaping Lizards	6	21
Abends	6	27

NUCLEAR LEAGUE

Team	Won	Lost
Hawks	28	2
Con-Fusion	28	2
Dipsticks	24	6
Dirty Half Dozen	20	10
Artie's Army	21	12
Maxwell Demons	14	16
Gluons	12	18
Absolute Zeros	11	19
The Lobbers	12	24
Panthers	9	21
Volleyers	4	26



NEW AUTHOR — Jay S. Oakwood, retired Y-12er, has published a book, "And There Shall Be Light," which he describes as a history of the origin of the universe and solar system and the development of life on earth, both from the religious and scientific angles. The busy retiree has also been elected to the International Platform Association, one of the nation's oldest and most prestigious organizations, founded by Daniel Webster. Oakwood came to ORGDP in 1953, transferring to Y-12 in 1960. After a series of heart attacks, he took a medical retirement in 1977.



ENERGY CONSERVATION WINNER — Edwin R. Blackburn, right, ORNL Plant and Equipment Division, submitted the winning entry in the recent Laboratory Energy Conservation Contest. He received a check for \$101 for his idea, which was to reclaim waste heat from the High Flux Isotope Reactor to heat Building 7900. Presenting the check to Blackburn are ORNL Executive Director Clyde C. Hopkins, left, and Ralph G. Donnelly, chairman of the ORNL Energy Conservation Program. Honorable mentions were awarded James Bentley, Metals and Ceramics Division, and John T. Meador, Energy Division.

News About People

Clifford A. Burchsted, senior engineering specialist in the nuclear standards office at ORNL, has been awarded the Centennial Medal of the American Society of Mechanical Engineers (ASME).

The Centennial Medal is a one-time honor presented to American engineers in commemoration of the Society's 100th anniversary. Burchsted, who also is an ASME fellow, was honored for his outstanding service to the Society and to the profession of mechanical engineering.

A native of Braintree, Mass., Burchsted has a BS degree from Northeastern University in Boston and an MS degree from the University of Tennessee, Knoxville. He joined Union Carbide in 1952. He and his wife, Elizabeth Simmons Burchsted, live at 710 River Bend Road, Clinton.



Burchsted



Davies



Rice

Alfred J. "Buzz" Davies II and Anthony M. Rice, Operating Contractors Project Office (OCPO) have been certified as Quality Engineers by the American Society for Quality Control (ASQC). They recently passed an extensive examination given by ASQC.

Davies is a graduate of the University of Alabama. He joined Union Carbide in 1976, and has worked on the QA staff in Separation Systems Division.

Rice is a QA engineer with the gas centrifuge design management team. He served in quality control management positions with Sperry Support Services and Chrysler Corporation prior to joining Union Carbide. He has a BS degree in mathematics and physics from Roosevelt University and an MBA from Athens College. Rice is a registered professional engineer and has taught quality courses at John C. Calhoun and Roane State Community College. He is currently education chairman for the Tennessee section of ASQC.

weekly journal of the American Association for the Advancement of Science.

Science carries definitive articles and up-to-date reports on topics and issues in and about the scientific world. It communicates the substance of research, science policy, reviews, and news.

The 17-member editorial board recommends to the **Science** editorial staff topics for articles and prospective authors to be included in the magazine.



Scott

James L. Scott, manager of the fusion energy materials programs of the Metals and Ceramics Division at ORNL, has been elected a fellow of the American Society for Metals. Scott was honored for his contributions in the fields of nuclear fuels and fusion reactor materials.

Scott received his BS in chemical engineering and MS and PhD in metallurgical engineering from the University of Tennessee, Knoxville. Formerly an instructor at the University of Tennessee, he joined Union Carbide in 1958. He is a fellow of the American Nuclear Society.



Zucker

Alexander Zucker, ORNL associate director for the physical sciences, has been appointed to a two-year term on the editorial board of **Science** magazine, the official

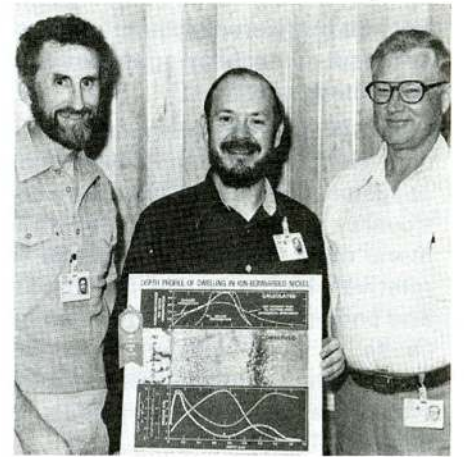


Shrader, Smith, Angelini, Henson, Rouse, Stinton, DeVore and Lackey

Several ORNL staff members received awards at the International Metallographic Exhibit in Brighton, England.

A poster describing recent work in isolating nuclear wastes received first place in the "Unique, Unusual or Other Technique Class." It was the work of Pete Angelini, Dave Stinton, Jack Lackey, Tom Henson, Larry Shrader, Nobel Rouse and Chuck DeVore, all of Metals and Ceramics, and Leon Smith of Graphic Arts. Another poster entered by Stinton, Angelini, Rouse and Smith took top honors in the "Color Micrograph Class."

A poster related to experiments in which ion bombardment is used to simulate neutron damage from fusion reactors won first place in the



Farrell, Packan and Houston

"Electron Microscopy-Transmission Class." It was entered by Nick Packan, Ken Farrell and John Houston, all of Metals and Ceramics.



Ihnen



Dummeier



Spivy

Three Paducah men have become licensed professional engineers: Merlin W. Ihnen, Charles P. Dummeier and C. Stephen Spivy.

Ihnen joined Union Carbide in 1962. A native of Golden, Ill., he has a BS degree from Southern Illinois. He is in Paducah's Mechanical Engineering Department's Auxiliary Systems. Prior to coming to Paducah, he did sheetmetal and heating and air conditioning service work.

Dummeier has a BS degree in civil engineering. A native of Paducah, he worked with Vought Corporation before joining Union Carbide in the Mechanical Engineering Department in 1979.

Spivy has a BS degree from the University of Tennessee. He joined Union Carbide in the Electrical Engineering Department at Paducah in 1976. He is a member of the Institute of Electrical and Electronic Engineers.

Savings Plan-Personal Investment Account

	Fixed Income Fund	UCC Stock	Equity Investment Fund
December 76	13.0553	59.2723	8.8166
December 77	14.2017	40.9096	8.0427
September 80	18.0487	46.4911	11.7894
October 80	18.1805	46.5648	12.0227
November 80	18.3161	48.8017	13.2537
December 80	18.4490	49.2140*	12.9061

*Discount of 50.8875

Note: Fixed Income Fund unit values reflect interest additions to achieve the guaranteed effective annual interest rate of 9.1% for 1980. Union Carbide stock values are the average cost of stock purchased during the month. Equity Investment Fund unit values represent the month-end market value of securities held by the Fund. The price of each unit is determined by dividing the total value of the securities by the number of units in the Fund.



Cholesterol VS Coronaries

by T. A. Lincoln, M.D.

QUESTION: Can you cast a little light on the confused subject of cholesterol and coronary heart disease? We have been hearing and reading conflicting reports.

ANSWER: Two recent reports that appeared to come to diametrically opposite conclusions illustrate a controversy which has been raging for more than twenty years. Does the relatively high intake of saturated fat and cholesterol in the American diet cause a high serum cholesterol level? If the fat intake were reduced, would the risk of coronary heart disease decline?

The report of the Food and Nutrition Board of the National Research Council of the National Academy of Sciences, in essence, has said "no" to the questions. A 20-year study of 1900 middle-aged men at the Western Electric Company's Hawthorne Works gave a qualified "yes." The subject, however, is inordinately complex and a simple yes or no answer is not adequate.

'75 percent of cholesterol comes from the liver.'

Cholesterol, a metabolite manufactured in the liver, is an essential building block for the formation of various body hormones and other vital substances. Only 25 percent of the cholesterol in the blood is derived from cholesterol in food, while 75 percent comes from the liver. Excess cholesterol in the blood is normally transferred to the bile and stored in the gall bladder to be released into the intestine when fatty food is eaten. It acts as a detergent to aid in the digestion of fat. Some is reabsorbed from the intestine and returned to the liver. The serum cholesterol, therefore, is made up of 25 percent from food, 25 percent from reabsorbed bile and 50 percent primarily manufactured in the liver.

Ideally, there is a feedback mechanism which reduces the production by the liver when an extra amount is absorbed from the intestine either from diet or from the bile. The Food and Nutrition Board stated that there does not appear to be a significant correlation between dietary cholesterol and serum cholesterol. An elevated serum cholesterol is more likely due to some disturbed regulatory process than to diet.

High cholesterol feedings in certain species of laboratory animals and birds can cause arterial lesions that look like atherosclerosis. These regress when the cholesterol in the

diet is reduced to normal. Most of the evidence of the role of cholesterol in humans comes from epidemiological studies. Many of these studies have shown a high degree of correlation between an elevated serum cholesterol and the prevalence of coronary heart disease. It is clearly a risk factor, but such an association does not establish a cause-and-effect relationship.

'Adjustments made for age, body-mass index, blood pressure, smoking, alcohol, etc.'

The high serum cholesterol could be, at least partly, the result of the atherosclerosis process rather than its cause. However, families that have a genetic disturbance in the control of lipid metabolism sometime have children with high levels of serum cholesterol who, years later, develop an excess of heart disease.

In the Western Electric Study, 1900 middle-aged men had their dietary intakes of saturated and polyunsaturated fat and dietary cholesterol carefully evaluated two times, a year apart. Their serum cholesterol levels were carefully evaluated. The participants were divided into groups of high, medium and low risk, based on their intake of cholesterol and saturated and polyunsaturated fats. Nineteen years later the vital status of the participants was determined. The risk of death from coronary heart disease was positively related to the base-line levels of both dietary scores after adjustment had been made for age, body-mass index, systolic blood pressure, cigarette smoking, serum cholesterol, monthly alcohol intake and three other variables. This study showed that dietary cholesterol was associated with risk of death from coronary heart disease after adjustment for other risk factors.

'None of the drugs are as effective or safe as they should be.'

Because a cause-and-effect relationship may never be found in a disease that has so many contributory factors related to life style, medical research has to depend on epidemiology. The question, then, is when do these "associations" have sufficient strength to be translated into public health recommendations. Because of the implications to the food indus-

try, such associations become political and business issues.

Individuals who are healthy and do not have elevated serum cholesterol levels (also other lipoprotein abnormalities) probably do not need to worry about their intakes of fat as long as they have a nutritious and varied diet. When they have other risk factors such as a family history of coronary heart disease, diabetes, high blood pressure, use of tobacco or obesity (20 percent or more above average for men of same height), most clinicians believe that it is wise to make adjustments where possible. Weight control and reduction of saturated fat intake are harmless and prudent when blood lipid abnormalities and excess weight are present. Drug treatment of high cholesterol

should probably be avoided. None of the drugs are as effective or safe as they should be.

Something the American public is doing is having a good effect on cardiovascular health. The age-adjusted death rate from coronary heart disease declined 22 percent from 1968 to 1978. During the same time, there has been a reduction of the average blood cholesterol level and yearly consumption of saturated fats and cholesterol, a modest decline in smoking and a great increase in exercise. We may never have the complete answer, but prudent changes in life style are not harmful and should improve the quality of life even though we can not be certain that they will always increase the quantity.

ORNL, ORGDP name new affirmative action persons

Barbara G. Ashdown and David R. Rupert have been named affirmative action coordinators at ORNL and ORGDP, respectively.

Ashdown succeeds Lynda R. Lewis who will coordinate administrative support and Job Opportunity System programs in ORNL's Employee Relations Division. Rupert replaces Kathryn D. Coleman who has transferred to Y-12's Product Engineering and Scheduling Division.

The new coordinators will work with management and representatives from each division to develop and implement annual affirmative action goals. They will also assist the Nuclear Division's Equal Employment Opportunities coordinator in carrying out Division-wide objectives.

Ashdown is a native of Lakewood, Ohio. She has a BS from Michigan State University and an MS from the University of Toledo. She joined Union Carbide in 1978 after teaching in Bowling Green, Ky., and working with the University of Cincinnati Medical Center Complex. She is a member of Phi Beta Kappa honorary society and edits the newsletter for the East Tennessee Chapter of the Society for Technical Communication. She and her husband, Paul, live at 102 Crescent Street, Norris.



Rupert



Ashdown

Rupert is a native of St. Louis, Mo., and has an MA from Northeast Missouri State University. He joined Union Carbide in 1979 as an employee relations representative. He and his wife, the former Sylvia A. Lewis, live at 110 Spellman Avenue, Oak Ridge.

Next issue...

The next issue will be dated February 12. The deadline is February 4.



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